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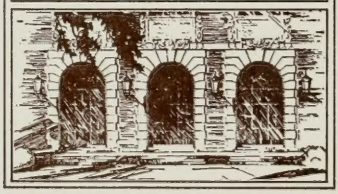

BIBLIOGRAPHY OF ILLINOIS VEGETATION

Paul G. Risser

NATURAL HISTORY SURVEY

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Biological Notes No. 121

Bibliography of Illinois Vegetation

Paul G. Risser

The vegetation of Illinois has been studied for more than 100 years. These studies have produced a rich literature describing the plant communities, ranging from the bottomland swamps in the south, through the prairies of central Illinois, to the dissected topography of the largely unglaciated northwestern portion of the state. In earlier years, these studies reported observations about the plants that occur in specific environmental conditions. More recently, investigations have involved elaborate measurement of processes such as nutrient cycling, physiological rates, and the genetics of populations.

Collectively, this literature constitutes the basis for a number of thoughts and themes about plant ecology—ideas that originated from the work of ecologists who worked in plant communities in Illinois. The resulting information now permits thorough descriptions of some vegetation types but only more fragmentary descriptions of other types. A number of ecological processes are now documented in some Illinois ecosystems but not others. Understanding the vegetation patterns in some parts of the state is possible from a long history of studies, whereas other locations are described only by old or by recent observations. The literature on the vegetation of Illinois is impressive in its volume and quality and, as such, represents a sound base upon which to build further studies on the plant communities of the state. At the same time, this bibliography, and the individual indices, indicate that biologists still have enormous opportunities for rewarding investigations on the vegetation of Illinois.

All the references in this bibliography have been reviewed by the author. Items were selected for inclusion on the basis of several guidelines. Although the author exercised some descretion to produce the most useful document, these rules were used to guide judgements about which publications should be included.

1. Abstracts are not included.
2. Papers discussing algae are not included, but papers about natural occurrences of fungi, lichens, mosses, ferns, gymnosperms, and angiosperms are inluded.
3. Studies describing revegetations are generally included, but papers describing the management of forest plantations, agricultural crops, and introduced meadows are omitted.
4. Some zoological papers that present details on the vegetation of the study site are included.
5. Several papers about the distribution of soils are included, though these listings are not meant to be exhaustive and include only papers that relate directly to the associated vegetation.
6. Books and papers describing the flora of specific areas are included, as are general taxonomic manuals; however, additions to the statewide flora and strictly taxonomic or systematic papers usually are not included.
7. Unpublished reports are included if they can be obtained conveniently from libraries or the original sources.
8. Some generally important conceptual papers are included, especially if it was believed these papers have contributed significantly to the science of Illinois vegetation.
9. An attempt was made to include all citations through 1982, though some 1983 entries are included.
10. Popular articles without substantive descriptions of the vegetation usually are omitted.

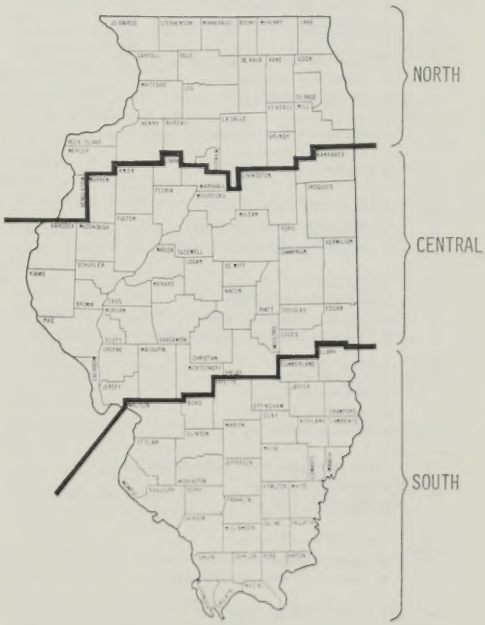


Fig. 1 — Map of Illinois, showing north, central, and south sections.

This paper is published by authority of the State of Illinois. Dr. Paul G. Risser is Chief of the Illinois Natural History Survey and is a plant ecologist.

Two or more outside referees recommend each manuscript submitted for publication in the Biological Notes series before it is accepted.

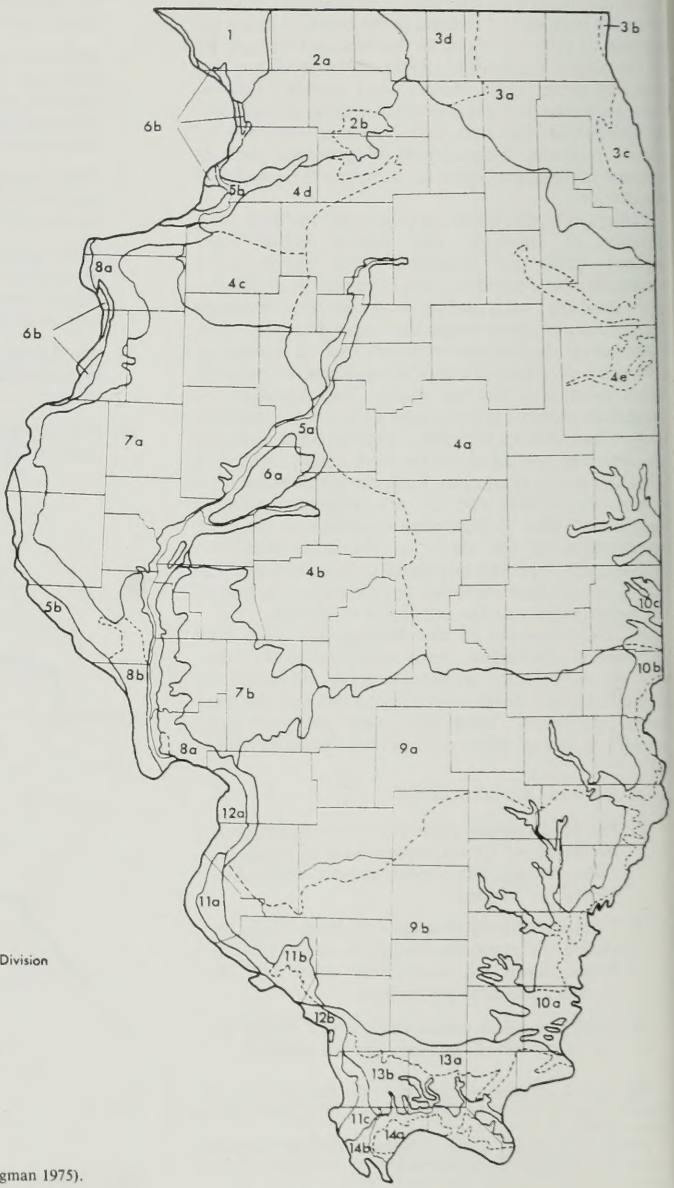
To make the literature more manageable, several indices are included with this bibliography:

1. Author

   For each author, citation numbers indicate each publication on which his or her name appears.

2. Section of the State

   The state was divided into three broad sections, north, central, and south, as shown in Fig. 1. If an entry deals with portions of more than two sections, it is listed under State.



1 Wisconsin Driftless Division

2 Rock River Hill Country Division
- a Freeport Section
- b Oregon Section

3 Northeastern Morainal Division
- a Morainal Section
- b Lake Michigan Dunes Section
- c Chicago Lake Plain Section
- d Winnebago Drift Section

4 Grand Prairie Division
- a Grand Prairie Section
- b Springfield Section
- c Western Section
- d Green River Lowland Section
- e Kankakee Sand Area Section

5 Upper Mississippi River and Illinois River Bottomlands Division
- a Illinois River Section
- b Mississippi River Section

6 Illinois River and Mississippi River Sand Areas Division
- a Illinois River Section
- b Mississippi River Section

7 Western Forest-Prairie Division
- a Galesburg Section
- b Carlinville Section

8 Middle Mississippi Border Division
- a Glaciated Section
- b Driftless Section

9 Southern Till Plain Division
- a Effingham Plain Section
- b Mt Vernon Hill Country Section

10 Wabash Border Division
- a Bottomlands Section
- b Southern Uplands Section
- c Vermilion River Section

11 Ozark Division
- a Northern Section
- b Central Section
- c Southern Section

12 Lower Mississippi River Bottomlands Division
- a Northern Section
- b Southern Section

13 Shawnee Hills Division
- a Greater Shawnee Hills Section
- b Lesser Shawnee Hills Section

14 Coastal Plain Division
- a Cretaceous Hills Section
- b Bottomlands Section

Fig. 2 — Natural divisions of Illinois (Schwegman 1975).

3. County
   Each entry was classified according to one or more counties (Fig. 1). If a citation involves more than six counties, or if the actual location could not be determined, the entry is listed under All Counties.

4. Natural Divisions
   Each entry was classified according to one or more of the natural divisions described by Schwegman (1975 and Fig. 2). If a citation involves more than four such divisions, or if the acutal location could not be determined, the entry is listed under All Divisions. If more than four divisions are involved, but the locations are exclusively in the north, central, or south section of the state (Fig. 1), the entry is indexed separately, for example, as four or more divisions in the north section of the state.

5. Subject
   Entries were classified under one or more of 33 topics and are listed chronologically by decades.

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ACKNOWLEDGEMENTS

This bibliography would not have been possible without the assistance of many people, especially Wilma Dillman, Monica Lusk, Carla Heister, and Phyllis Risser. Others at the Illinois Natural History Survey and throughout the state provided references and assisted in various ways: A. Adams, R. Anderson, C. Ashby, W. Boggess, J. Bouseman, M. Bowles, S. Brown, J. Ebinger, G. Fell, J. Fralish, J. Graber, R. Graber, R. Henry, L. Iverson, J. Ives, F. King, J. King, W. Klimstra, R.W. Larimore, W. McClain, S. McClellan, R. Mohlenbrock, R. Moran, L. O'Flaherty, K. Robertson, G. Rolfe, G. Sanderson, J. Schwegman, A. Scott, P. Sorensen, E. Steger, G. Ware, J. Warnock, G. Weaver, M. Wetzel, J. White, and R. Zewadski. The author gratefully acknowledges the help provided by these individuals.

US ISSN 0073-490X

(41950—2500—8-84)